

SDR Cube DSP Board
Power Supply

OH2NLT, N2APB

Drawn

JNI

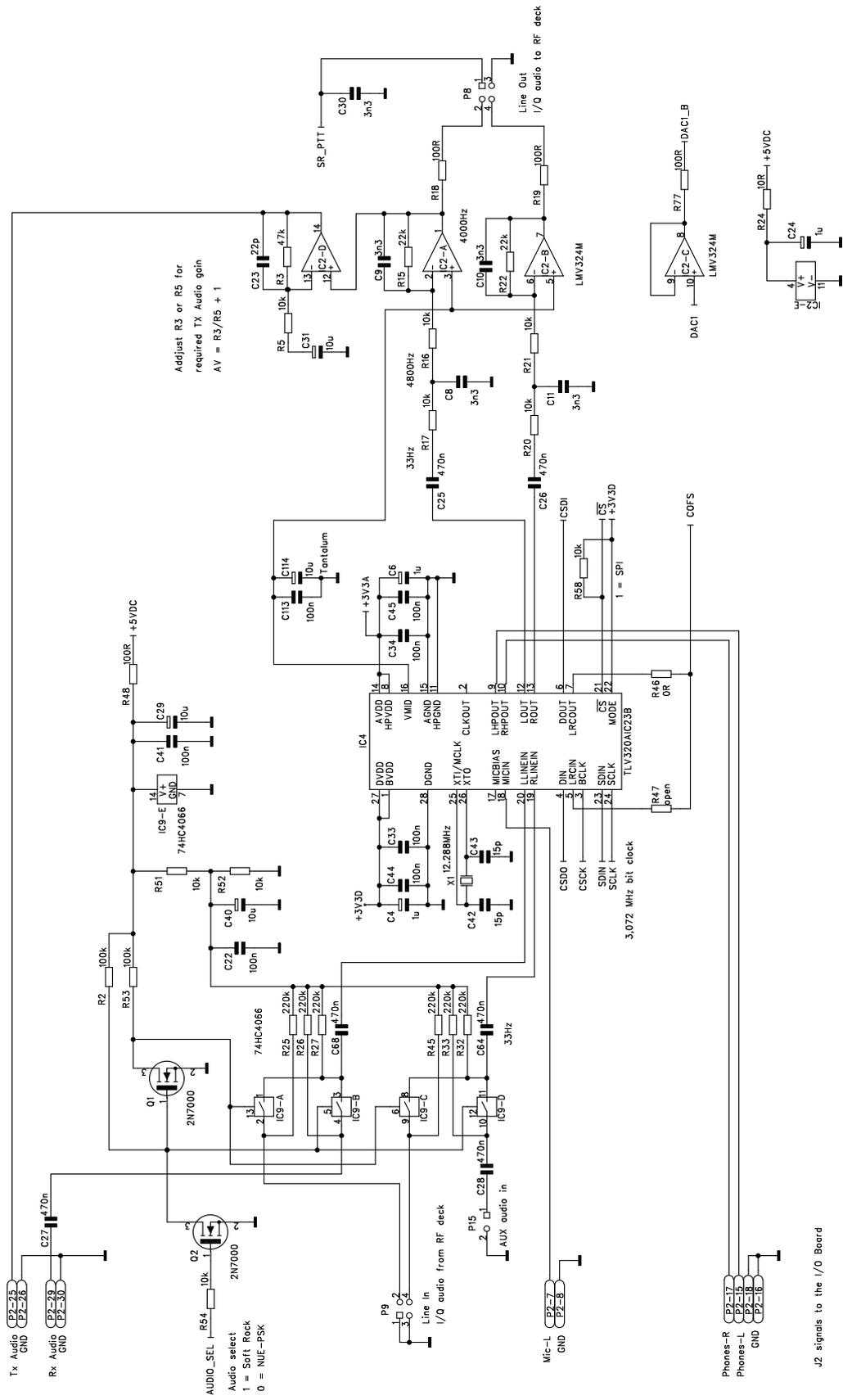
2010.10.31

DRAWING No.

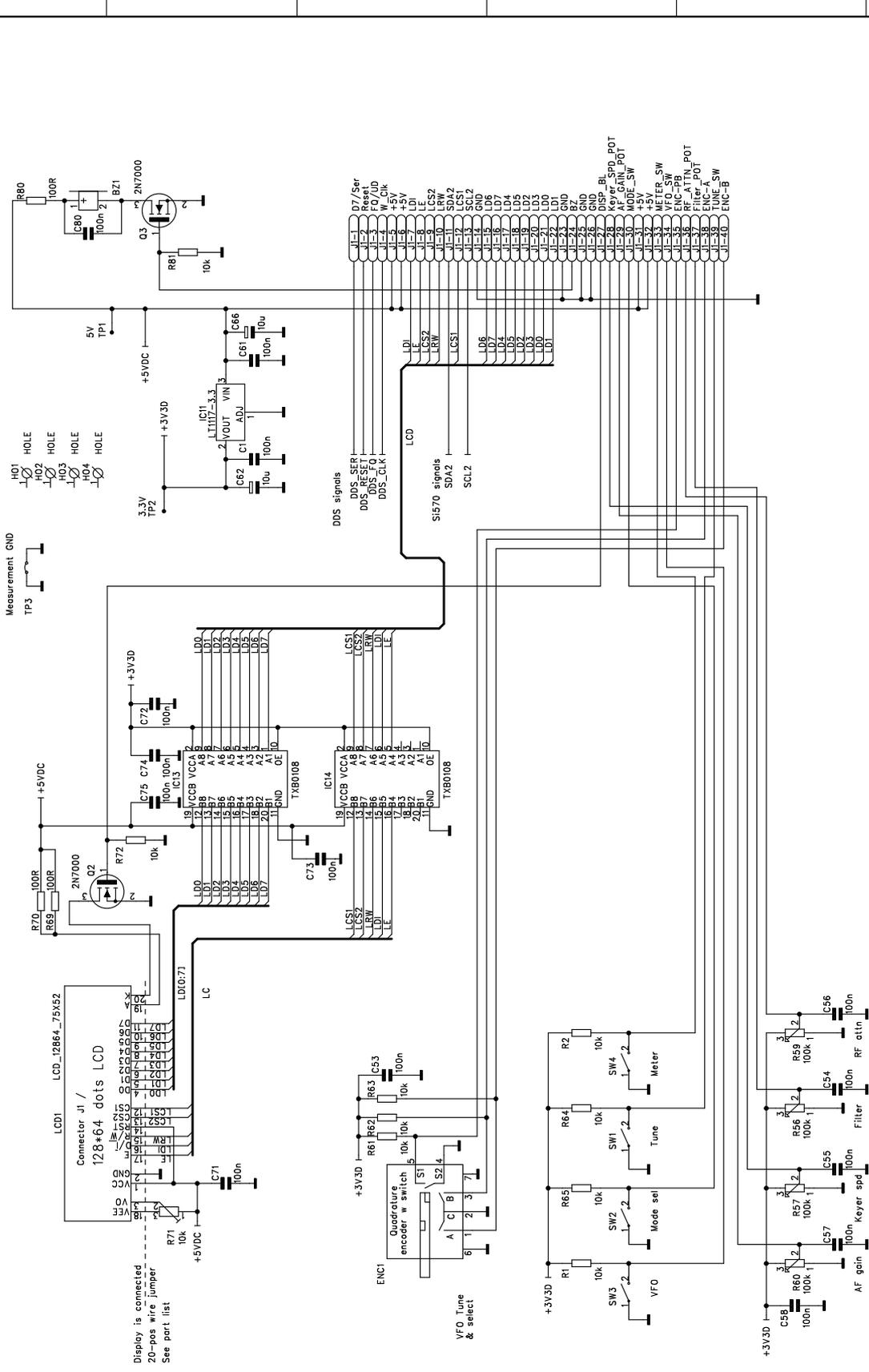
Rev. C

Appr.

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SDR Cube DSP Board	Codec & audio switching	DRAWING No.
OH2NLT, N2APB	Rev. C	Appr.
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Display is connected
20-pos wire jumper
See part list

SDR Cube Control Board

Display & controls

OH2NLT, N2APB

Drawn

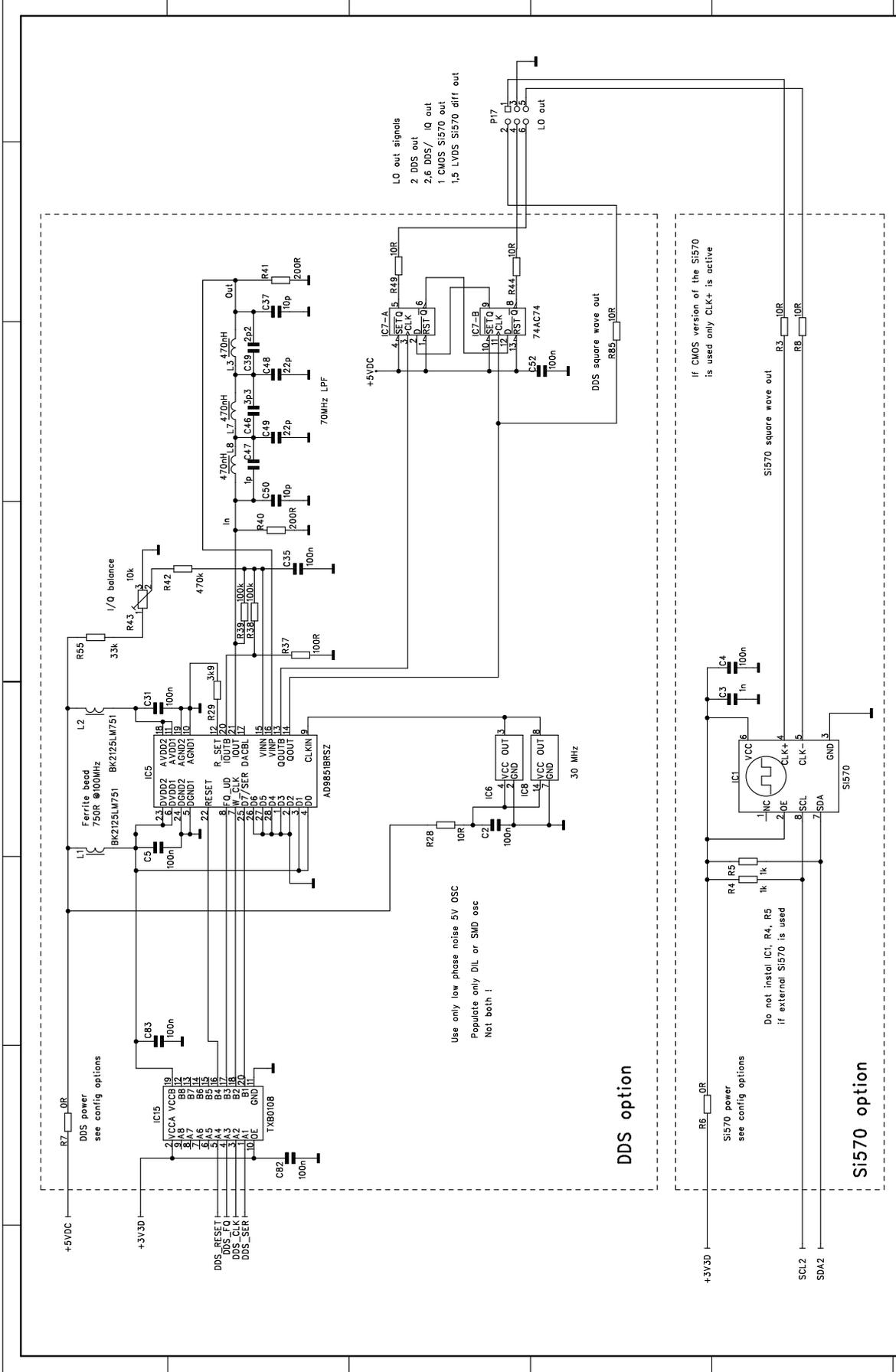
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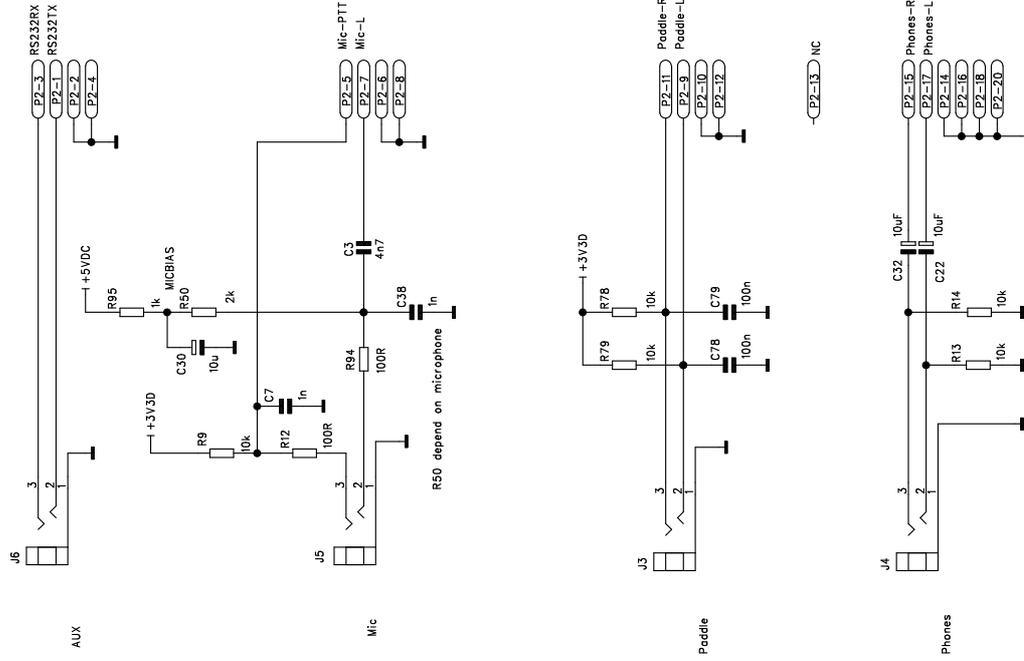
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DRAWING No.



SDR Cube Control Board	OH2NLT, N2APB	Drawn	2010.10.28	JNI
DDS & Si570	Rev. C1 / 2010.12.29	Appr.		Page 2 / 2

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SDR Cube I/O Board

Mic, Phones, Paddle & AUX connectors

OH2NLT, N2APB

Drawn 2010.10.28

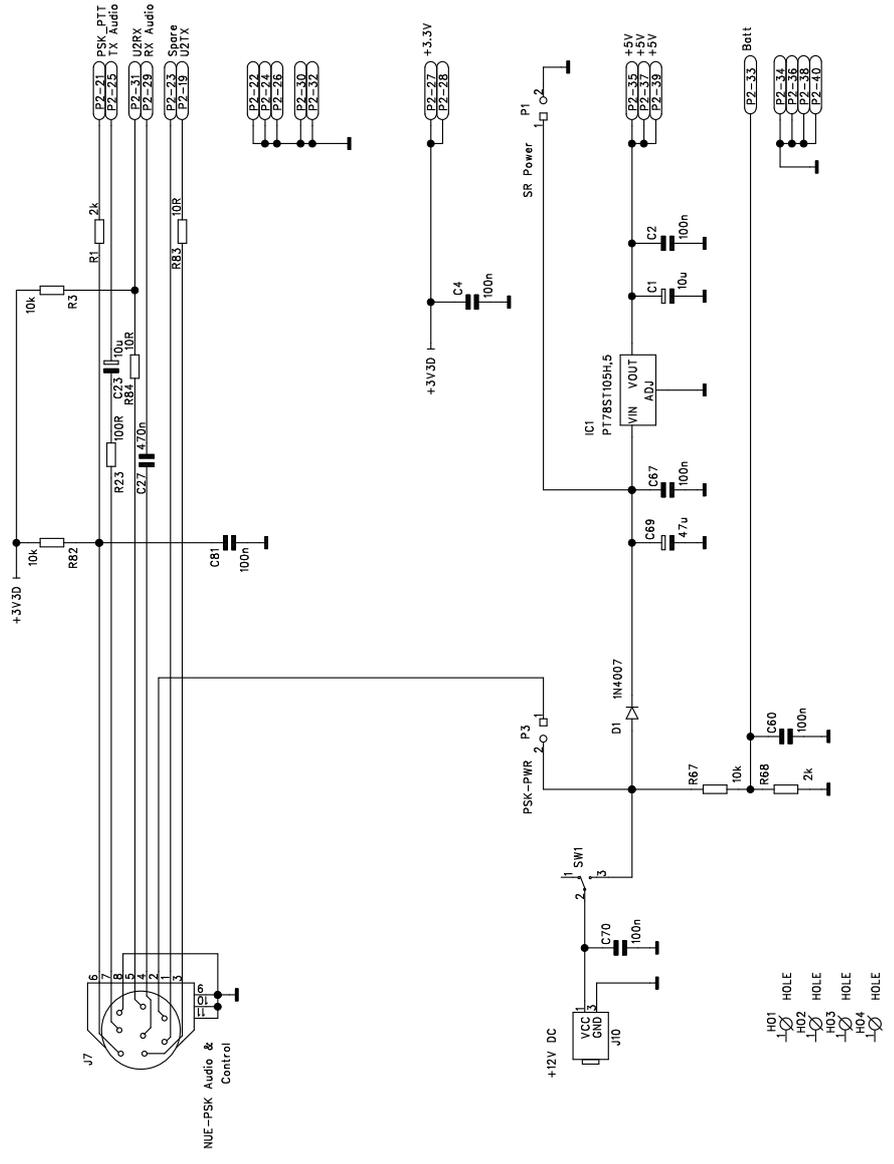
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DRAWING No.



SDR Cube I/O Board
Power & PSK modem connector

OH2NLT, N2APB

2010.10.28

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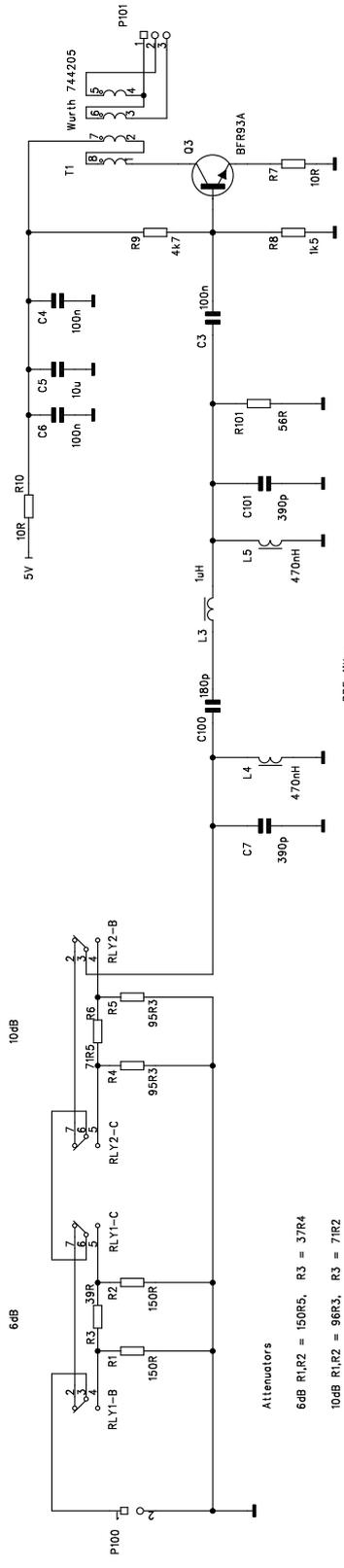
DRAWING No.

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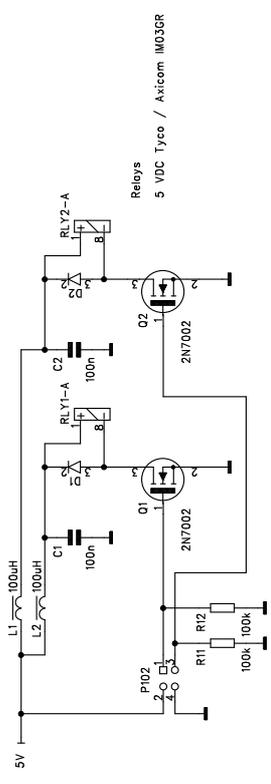
Drawn



BPF filter values for 14MHz filter

! Note !
R101 is missing in Rev C pcb
install on top of the C101

Set gain with R7
10R = 24dB
22R = 18dB
47R = 12dB



BPF filter component values for different bands

Component	1-2 MHz filter	2-4 MHz filter	4-8 MHz filter	8-15 MHz filter	15-30 MHz filter
C7, C101	2700pF	1500pF	820pF	390pF	180pF
C100	1200pF	680pF	390pF	180pF	82pF
L4, L5	4.7uH	2.2uH	1uH	470nH	330nH
L3	10uH	4.7uH	2.2uH	1uH	680nH

Capacitors 0805, NP0 type
Inductors 1210 III B type

Attenuators
6dB R1,R2 = 150R, R3 = 37R4
10dB R1,R2 = 86R3, R3 = 71R2

SDR Cube

RX PBF & 2-stage RF Attenuator & RF Amp

Drawn 31.10.2010

OH2NLT & N2APB

JNI

Rev. D

Appr.

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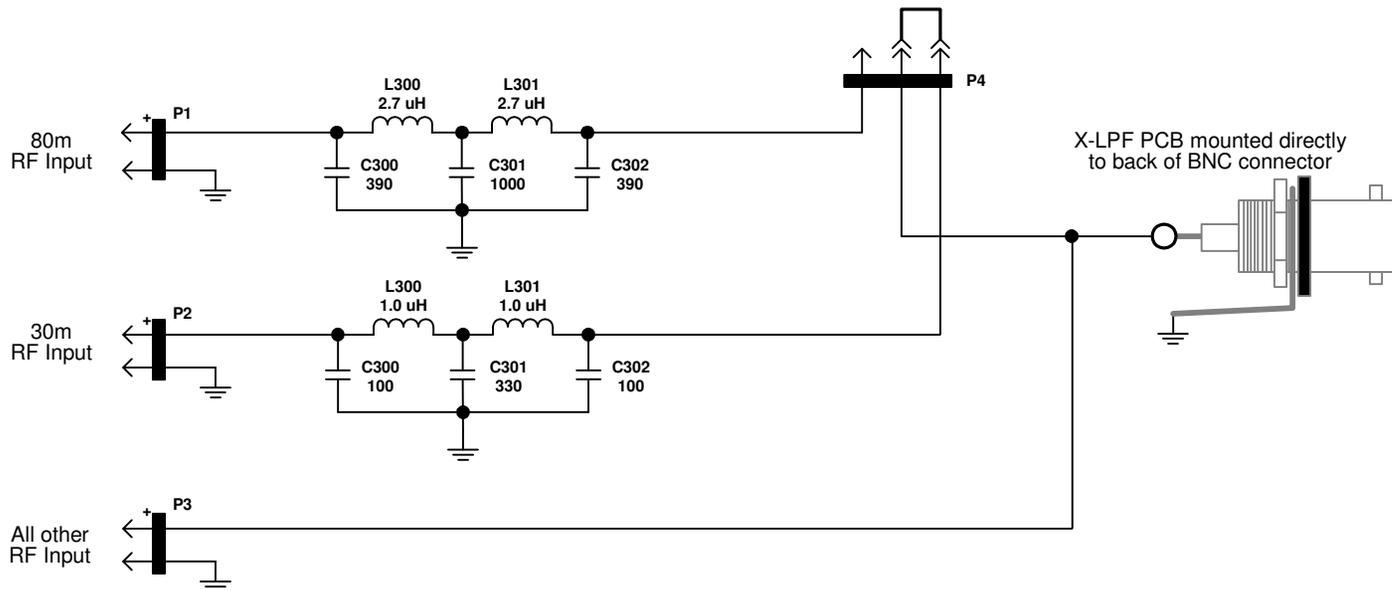
DRAWING No.

X-LPF Extra Low Pass Filter

LPF components selected for:
80m: 4.0 MHz
30m: 10.5 MHz

Set jumper for RF input:
80m, 30m,
or Other (no connection)

80m 30m



Plug the RF cable
(from SR-Base board)
into appropriate
connector: P1, P2 or P3.
Then set jumper on P4 to
correspond